

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L14	29	("5392390"   "5630081"   "5684990"   "5701423"   "5710922"   "5727202"   "5729735"   "5754306"   "5774717"   "5845293"   "5884323"   "5887145"   "5897640"   "6000000"   "6052735"   "6125369"   "6243705"   "6272545"   "6275831"   "6295541"   "6317797"   "6324544"   "6330568"   "6330618"   "6370566"   "6442570"   "6457062"   "6463427"   "6633924") PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/16 13:44
L13	54	(prevent\$5 refrain\$5 restrain\$5 keep\$5) near4 (delet\$5 eras\$5) near4 (object data) same (synchroniz\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/16 13:42
L9	2085	(prevent\$5 refrain\$5 preserv\$5) same (discard\$5 delet\$5 eras\$5 punch\$5) same (synchroniz\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/16 13:08
L8	26	(prevent\$5 refrain\$5 preserv\$5) same (discard\$5 delet\$5 eras\$5 punch\$5) same (synchroniz\$5) and 707/201.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/16 13:07
L7	18	(prevent\$5 refrain\$5 preserv\$5) same (discard\$5 delet\$5 eras\$5 punch\$5) same (synchroniz\$5) and 709/224,225.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/16 12:59
L4	18	(prevent\$5 refrain\$5 preserv\$5) same (discard\$5 delet\$5 eras\$5 punch\$5) same (synchroniz\$5) and 709/224,225.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/16 12:53
S48	4	("6226498"   "6292657"   "6434364"   "6594470") PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/15 08:43
S47	2	"6766165".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/15 08:42
S46	2	"6862617".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/12 12:43
S45	33	(unavailable available select\$5) near4 (application database object) near4 (synchroniz\$5) and (removable swap\$7 switchable) near4 (memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/12 12:43
S44	0	(unavailable available select\$5) near4 (application database object) near4 (synchroniz\$5) same (removable swap\$7 switchable) near4 (memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/12 12:38

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S43	56	(application) near4 (synchroniz\$5) and (removable swap\$7 switchable) near4 (ROM)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/12 12:37
S42	0	(application) near4 (synchroniz\$5) same (removable swap\$7 switchable) near4 (ROM)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/12 12:26
S41	2	"5974238".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/12 12:24
S40	2	"5974328".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/12 11:52
S39	2	"6006274".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/05 09:08
S38	5	S35 and (select\$5) near4 (resynchroniz\$5 synchroniz\$5) with (object file data) with (unavailable available accessible inaccessible)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/05 09:07
S37	181	S35 and (select\$5) near4 (resynchroniz\$5 synchroniz\$5) with (object file data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/05 08:56
S36	42	S35 and (select\$5) near4 (resynchroniz\$5 synchroniz\$5) with (object file data) with (device)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/05 08:56
S35	40685	"709"\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/05 08:55
S34	2	"5974238".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/05 08:55
S32	21894	(resynchroniz\$5 synchroniz\$5) with (object file data) with (device)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/05 08:55

## EAST Search History

S14	2	"6862617".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 12:37
S33	15	(resynchroniz\$5 synchroniz\$5) with (object file data) with (device) with (removable hot) with (disk card stick)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 12:33
S31	14	(resynchroniz\$5 synchroniz\$5) near4 (present available accessible) adj (object file data) with (device)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 12:32
S29	79	(resynchroniz\$5 synchroniz\$5) near4 (present available accessible) adj (object file data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 12:32
S30	8	(resynchroniz\$5 synchroniz\$5) near4 (present) adj (object file data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 12:28
S28	22	(synchroniz\$5) adj3 (available accessible) adj (object file data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 12:27
S27	223	(synchroniz\$5) with (available accessible) adj (object file data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 10:07
S26	7	(synchroniz\$5) with (only) adj (available accessible) adj (object file data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 10:07
S25	174	(synchroniz\$5) with (only) with (available accessible) with (object file data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 10:06
S24	2807	(synchroniz\$5) with (available accessible) with (object file data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 09:48
S23	2	"6862617".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 09:47

## EAST Search History

S22	2	"6317797".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 09:33
S21	492	(prevent\$5 refrain\$5 preserv\$5) same (synchroniz\$5) same (removable)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 09:25
S20	3	(prevent\$5 refrain\$5 preserv\$5) same (synchroniz\$5) same (memory card stick) with (removable)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 09:25
S19	0	(prevent\$5 refrain\$5 preserv\$5) same (synchroniz\$5) with (memory card stick) with (removable)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 09:24
S18	0	(prevent\$5 refrain\$5 preserv\$5) with (synchroniz\$5) with (memory card stick) with (removable)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 09:24
S17	0	(prevent\$5 refrain\$5 preserv\$5) with (correspond\$5) with (synchroniz\$5) with (memory card stick) with (removable)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 09:24
S16	0	(prevent\$5 refrain\$5 preserv\$5) near8 (correspond\$5) near6 (synchroniz\$5) near5 (file object)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 09:23
S12	11	(prevent\$5 refrain\$5 preserv\$5) near8 (correspond\$5) near6 (updat\$5 synchroniz\$5) near5 (file object)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 09:20
S15	29	("5392390"   "5630081"   "5684990"   "5701423"   "5710922"   "5727202"   "5729735"   "5754306"   "5774717"   "5845293"   "5884323"   "5887145"   "5897640"   "6000000"   "6052735"   "6125369"   "6243705"   "6272545"   "6275831"   "6295541"   "6317797"   "6324544"   "6330568"   "6330618"   "6370566"   "6442570"   "6457062"   "6463427"   "6633924").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/01 09:12
S13	0	(prevent\$5 refrain\$5 preserv\$5) near8 (correspond\$5) near6 (updat\$5 synchroniz\$5) near5 (file object) same (unavailable found)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 08:59
S11	0	(list\$5) near6 (updat\$5 synchroniz\$5) near5 (file object) and (prevent\$5 refrain\$5 preserv\$5) near8 (correspond\$5) near6 (updat\$5 synchroniz\$5) near5 (file object)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 08:58

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S10	0	(creat\$5 generat\$5) near5 (list\$5) near6 (updat\$5 synchroniz\$5) near5 (file object) and (prevent\$5 refrain\$5 preserv\$5) near8 (correspond\$5) near6 (updat\$5 synchroniz\$5) near5 (file object)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 08:58
S9	0	(creat\$5 generat\$5) near5 (list\$5) near6 (updat\$5 synchroniz\$5) near5 (file object) same (prevent\$5 refrain\$5 preserv\$5) near8 (correspond\$5) near6 (updat\$5 synchroniz\$5) near5 (file object)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 08:58
S6	1689	(updat\$5 synchroniz\$5) near4 (correspond\$5 relat\$5) near4 (file object)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/01 08:55
S8	58	(updat\$5 synchroniz\$5) same (prevent\$5 protect\$5) near4 (file object) near5 (delet\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/13 15:15
S7	0	(updat\$5 synchroniz\$5) near4 (correspond\$5 relat\$5 pair) near4 (file object) same (prevent\$5 protect\$5) near4 (file object) near5 (delet\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/13 15:15

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IEEE JNL IEEE Journal or Magazine

IEEE JNL IEEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEEE Conference Proceeding

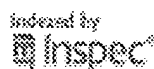
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IEEE JNL IEEE Journal or Magazine

IEEE JNL IEE Journal or Magazine

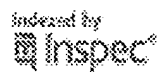
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IEEE JNL IEEE Journal or Magazine

IEEE JNL IEE Journal or Magazine

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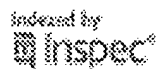
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# 1 [A reliable object-oriented data repository for a distributed computer system](#)



Liba Svobodova

 December 1981 **Proceedings of the eighth ACM symposium on Operating systems principles**

Publisher: ACM Press

Full text available: [pdf\(1.18 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The repository described in this paper is a component of a distributed data storage system for a network of many autonomous machines that might run diverse applications. The repository is a server machine that provides very large, very reliable long-term storage for both private and shared data objects. The repository can handle both very small and very large data objects, and it supports atomic update of groups of objects that might be distributed over several repositories. Each object is ...

**Keywords:** Atomic update, Crash recovery, Distributed data storage system, Memory management, Optical disk, Server, Stable storage

## 2 [Formal aspects of concurrency control in long-duration transaction systems using the NT/PV model](#)



Henry F. Korth, Greg Speegle

 September 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 3

Publisher: ACM Press

Full text available: [pdf\(3.23 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In the typical database system, an execution is correct if it is equivalent to some serial execution. This criterion, called serializability, is unacceptable for new database applications which require long-duration transactions. We present a new transaction model which allows correctness criteria more suitable for these applications. This model combines three enhancements to the standard model: nested transactions, explicit predicates, and multiple versions. These features yield the name o ...

**Keywords:** concurrency control protocol, semantic information, transaction processing

### 3 Architecture of the IBM system/370



Richard P. Case, Andris Padegs

January 1978 **Communications of the ACM**, Volume 21 Issue 1

**Publisher:** ACM Press

Full text available: pdf(2.78 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper discusses the design considerations for the architectural extensions that distinguish System/370 from System/360. It comments on some experiences with the original objectives for System/360 and on the efforts to achieve them, and it describes the reasons and objectives for extending the architecture. It covers virtual storage, program control, data-manipulation instructions, timing facilities, multiprocessing, debugging and monitoring, error handling, and input/output operations. ...

**Keywords:** architecture, computer systems, error handling, instruction sets, virtual storage

### 4 Data base directions: the next steps



John L. Berg

November 1976 **ACM SIGMOD Record**, **ACM SIGMIS Database**, Volume 8, 8 Issue 4, 2

**Publisher:** ACM Press

Full text available: pdf(9.95 MB)

Additional Information: [full citation](#), [abstract](#)

What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

**Keywords:** DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

### 5 Concurrent compacting garbage collection of a persistent heap



James O'Toole, Scott Nettles, David Gifford

December 1993 **ACM SIGOPS Operating Systems Review**, **Proceedings of the fourteenth ACM symposium on Operating systems principles SOSP '93**, Volume 27 Issue 5

**Publisher:** ACM Press

Full text available: pdf(1.50 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe a replicating garbage collector for a persistent heap. The garbage collector cooperates with a transaction manager to provide safe and efficient transactional storage management. Clients read and write the heap in primary memory and can commit or abort their write operations. When write operations are committed they are preserved in stable storage and survive system failures. Clients can freely access the heap during garbage collection because the collector concurrently builds a comp ...

### 6 A parallel GPSS based on the ParaSol simulation system



Felipe Knop, Edward Mascarenhas, Vernon Rego

November 1996 **Proceedings of the 28th conference on Winter simulation**

**Publisher:** ACM Press

Full text available:  [pdf\(932.02 KB\)](#) Additional Information: [full citation](#), [references](#)

## 7 A Tutorial on Algol 68

 Andrew S. Tanenbaum

June 1976 **ACM Computing Surveys (CSUR)**, Volume 8 Issue 2

**Publisher:** ACM Press


Full text available:  [pdf\(2.92 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

## 8 Special issue: AI in engineering

 D. Sriram, R. Joobani


April 1985 **ACM SIGART Bulletin**, Issue 92

**Publisher:** ACM Press

Full text available:  [pdf\(8.79 MB\)](#) Additional Information: [full citation](#), [abstract](#)


The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

## 9 DGDBM: programming support for distributed transactions over replicated files

 Maria Consuelo Franky

July 1995 **ACM SIGOPS Operating Systems Review**, Volume 29 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(852.14 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper describes a set of facilities for programming distributed transactions over replicated files which are accessed by primary key. The files are located on several computers communicated by a network. Each site has the set of GNU dbm (Gdbm) routines for local file management [15]. Above this platform we have built an interface and a set of services for distributed transaction programming. The resulting programming environment, "DGDBM", offers transparency in relation to data distribution ...


**Keywords:** distributed data bases, distributed file systems, distributed systems, distributed transaction systems, replicated data management, tools for the C programming of distributed transactions

## 10 A reliable multicast framework for light-weight sessions and application level framing


 Sally Floyd, Van Jacobson, Steve McCanne, Ching-Gung Liu, Lixia Zhang

October 1995 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '95**, Volume 25 Issue 4


**Publisher:** ACM Press

Full text available:  [pdf\(1.67 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper describes SRM (Scalable Reliable Multicast), a reliable multicast framework for application level framing and light-weight sessions. The algorithms of this framework are efficient, robust, and scale well to both very large networks and very large sessions. The framework has been prototyped in wb, a distributed whiteboard application, and has been extensively tested on a global scale with sessions ranging from a few to more than 1000 participants. The paper describes the principles tha ...

11 Automatic reconfiguration in Autonet Thomas L. Rodeheffer, Michael D. SchroederSeptember 1991 **ACM SIGOPS Operating Systems Review , Proceedings of the thirteenth ACM symposium on Operating systems principles SOSP '91**, Volume 25 Issue 5**Publisher:** ACM PressFull text available:  pdf(1.90 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Autonet is a switch-based local area network using 100 Mbit/s full-duplex point-to-point links. Crossbar switches are interconnected to other switches and to host controllers in an arbitrary pattern. Switch hardware uses the destination address in each packet to determine the proper outgoing link for the next step in the path from source to destination. Autonet automatically recalculates these forwarding paths in response to failures and additions of network components. This automatic reconfigur ...

12 Using histories to implement atomic objects Tony P. NgNovember 1989 **ACM Transactions on Computer Systems (TOCS)**, Volume 7 Issue 4**Publisher:** ACM PressFull text available:  pdf(2.74 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In this paper we describe an approach to implementing atomicity. Atomicity requires that computations appear to be all-or-nothing and executed in a serialization order. The approach we describe has three characteristics. First, it utilizes the semantics of an application to improve concurrency. Second, it reduces the complexity of application-dependent synchronization code by analyzing the process of writing it. Third, our approach hides the protocol used to arrive at a ser ...

13 State of the art in parallel simulation Richard Fujimoto, David NicolDecember 1992 **Proceedings of the 24th conference on Winter simulation****Publisher:** ACM PressFull text available:  pdf(912.99 KB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)14 A reliable multicast framework for light-weight sessions and application level framing

Sally Floyd, Van Jacobson, Ching-Gung Liu, Steven McCanne, Lixia Zhang

December 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 6**Publisher:** IEEE PressFull text available:  pdf(310.74 KB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)**Keywords:** Internetworking, computer network performance, computer networks15 Synchronizing shared abstract types Peter M. Schwarz, Alfred Z. SpectorAugust 1984 **ACM Transactions on Computer Systems (TOCS)**, Volume 2 Issue 3**Publisher:** ACM PressFull text available:  pdf(1.93 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** dependencies, locking, transaction serializability


# 16 Process synchronization in database systems



Gunter Schlageter

September 1978 **ACM Transactions on Database Systems (TODS)**, Volume 3 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(1.87 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The problem of process synchronization in database systems is analyzed in a strictly systematic way, on a rather abstract level; the abstraction is chosen such that the essential characteristics of the problem can be distinctly modeled and investigated. Using a small set of concepts, a consistent description of the whole problem is developed; many widely used, but only vaguely defined, notions are defined exactly within this framework. The abstract treatment of the problem immediately leads ...

**Keywords:** database consistency, database systems, integrity, locking, parallel process systems, process synchronization

# 17 A fully reusable class of objects for synchronization and communication in Ada 95



Patrick de Bondeli

October 1997 **ACM SIGAda Ada Letters , Proceedings of the eighth international workshop on Real-Time Ada IRTAW '97**, Volume XVII Issue 5

**Publisher:** ACM Press

Full text available:  [pdf\(530.02 KB\)](#)

Additional Information: [full citation](#), [citations](#), [index terms](#)

# 18 How Microsoft builds software



Michael A. Cusumano, Richard W. Selby

June 1997 **Communications of the ACM**, Volume 40 Issue 6

**Publisher:** ACM Press

Full text available:  [pdf\(712.71 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)


# 19 The UNIX time-sharing system



Dennis M. Ritchie, Ken Thompson

July 1974 **Communications of the ACM**, Volume 17 Issue 7

**Publisher:** ACM Press

Full text available:  [pdf\(1.15 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

UNIX is a general-purpose, multi-user, interactive operating system for the Digital Equipment Corporation PDP-11/40 and 11/45 computers. It offers a number of features seldom found even in larger operating systems, including: (1) a hierarchical file system incorporating demountable volumes; (2) compatible file, device, and inter-process I/O; (3) the ability to initiate asynchronous processes; (4) system command language selectable on a per-user basis; and (5) over 100 subsystems including a ...

**Keywords:** PDP-11, command language, file system, operating system, time-sharing

**20** Interactive design of 3-D computer-animated legged animal motion

Michael Girard

January 1987 **Proceedings of the 1986 workshop on Interactive 3D graphics****Publisher:** ACM PressFull text available: [pdf\(1.44 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a visually interactive approach to the design of 3-D computer-animated legged animal motion in the context of the PODA computer animation system. The design process entails the interactive specification of parameters which drive a computational model for animal movement. The animator incrementally modifies a framework for establishing desired limb and body motion as well as the constraints imposed by physical dynamics (Newtonian mechanical properties) and temporal restrictions. P ...

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- Sally Floyd, Van Jacobson, Ching-Gung Liu, Steven McCanne, Lixia Zhang  
 December 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 6  
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**Keywords:** Internetworking, computer network performance, computer networks

- 2 [Parallel logic programming systems](#)
- Jacques Chassin de Kergommeaux, Philippe Codognet  
 September 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 3  
**Publisher:** ACM Press

Full text available: [pdf\(3.51 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Parallelizing logic programming has attracted much interest in the research community, because of the intrinsic OR- and AND-parallelisms of logic programs. One research stream aims at transparent exploitation of parallelism in existing logic programming languages such as Prolog, while the family of concurrent logic languages develops language constructs allowing programmers to express the concurrency—that is, the communication and synchronization between parallel processes—withi ...

**Keywords:** AND-parallelism, OR-parallelism, Prolog, Warren Abstract Machine, binding arrays, concurrent constraint programming, constraints, guard, hash windows, load balancing, massive parallelism, memory management, multisequential implementation techniques, nondeterminism, scheduling parallel tasks, static analysis

- 3 [Logic programming as the integrator of the Fifth Generation Computer Systems project](#)
- Koichi Furukawa  
 March 1992 **Communications of the ACM**, Volume 35 Issue 3



**Publisher:** ACM Press

Full text available:  [pdf\(3.67 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** constraint logic programming, fifth generation computer, knowledge information processing

4 [A case study of multi-threaded Gröbner basis completion](#)



Beatrice Amrhein, Oliver Gloor, Wolfgang Küchlin

October 1996 **Proceedings of the 1996 international symposium on Symbolic and algebraic computation**

**Publisher:** ACM Press

Full text available:  [pdf\(971.40 KB\)](#)

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5 [A notation for malleable and interoperable coordination mechanisms for CSCW systems](#)



Carla Simone, Monica Divitini, Kjeld Schmidt

August 1995 **Proceedings of conference on Organizational computing systems**

**Publisher:** ACM Press

Full text available:  [pdf\(1.31 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In order to handle the high degree complexity that characterizes cooperative work in modern work settings, the articulation of the distributed activities requires a category of symbolic artifacts that stipulate and mediate articulation work. We call these artifacts 'coordination mechanisms'. From the evidence of sociological field studies, it is evident that computational coordination mechanisms must be malleable and interoperable. The paper describes a notation for constructing computation ...

6 [Design: no job too small](#)



Jean C. Scholtz, Pete Lockhart, Tony Salvador, James Newbery

March 1997 **Proceedings of the SIGCHI conference on Human factors in computing systems**

**Publisher:** ACM Press

Full text available:  [pdf\(942.85 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** design, ergonomics; hand held, mobile computing, testing, usability, user requirements

7 [A multi-processing implementation-oriented formal definition of Ada in SEMANOL](#)



F. C. Belz, E. K. Blum, D. Heimbigner

November 1980 **ACM SIGPLAN Notices , Proceeding of the ACM-SIGPLAN symposium on Ada programming language SIGPLAN '80**, Volume 15 Issue 11

**Publisher:** ACM Press

Full text available:  [pdf\(1.23 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)





A formal definition of the syntax and semantics of Preliminary Ada has been designed and partially implemented as a metaprogram in the SEMANOL system. The paper describes the design in detail and also presents excerpts of the actual SEMANOL metaprogram. Special attention is paid to the following aspects, lacking in the formal denotational

definition of Ada: (1) formal definition of the connection between the concrete and abstract syntax of Ada, a necessary element of a formal definition if it is ...

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